

## ASBESTOS ASSES. SURVEY

H-K Building #: 14  
 Project Number: 0980193E  
 Project: G. HEILEMAN BREWERY "E"  
 Date Inspected: 03/28/89  
 Inspector: MARK VOTH

Building Number: 14  
 Building Name: STORAGE  
 SEATTLE, WASHINGTON 98134  
 Building Type: STRG/LAB  
 Year Constructed: UNKN

*****	AREA NUMBER: 01	AREA DESCRIPTION: 1st Floor	AREA AVERAGE % ASBESTOS: 40%	*****
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LOCATION OF THE MATERIAL	SAMPLE NUMBER	ASB	MATERIAL DESCRIPTION	O&M CODE	QUANTITY	UNITS OF MEASURE	PIPE ID	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
NW storage-near north wall-along ceiling	00-356355	40%	pipe covering	OMA	62 ft.	4 in. O.D.	HPS/R	25	III	\$553	\$346	\$899
east rooms-along ceiling	00-356355	40%	pipe covering	OMA	60 ft.	4 in. O.D.	HPS/R	25	III	\$535	\$335	\$870
NW storage-near NE corner-along wall	00-356355	40%	pipe covering	OMA	16 ft.	4 in. O.D.	HPS/R	25	III	\$143	\$89	\$232
southeast room-along west wall	00-356355	40%	pipe covering	OMA	5 ft.	4 in. O.D.	HPS/R	25	III	\$45	\$28	\$73
near carbon storage-along east wall	00-356359	30%	wrapped cardboard/paper pipe	OMA	9 ft.	4 in. O.D.	DW	25	III	\$80	\$50	\$130
east rooms-along ceiling	00-356359	30%	wrapped cardboard/paper pipe	OMA	91 ft.	4 in. O.D.	DW	25	III	\$812	\$508	\$1,320
southeast room-along west wall	00-356359	30%	wrapped cardboard/paper pipe	OMA	19 ft.	4 in. O.D.	DW	25	III	\$169	\$106	\$275
east rooms-along ceiling	01-356356	50%	mjp on pipe covering	OMA	8 4 in.	O.D.	HPS/R	25	III	\$225	\$125	\$350
southeast room-along west wall	01-356356	50%	mjp on pipe covering	OMA	2 4 in.	O.D.	HPS/R	25	III	\$56	\$31	\$87
NW storage-near north wall-along ceiling	01-356356	50%	mjp on pipe covering	OMA	6 4 in.	O.D.	HPS/R	25	III	\$169	\$94	\$263
	01-356357	60%						25	III			
	01-356358	30%						25	III			
near carbon storage-along east wall	02-356360	60%	mjp on wrapped cardboard/paper	OMA	2 4 in.	O.D.	DW	25	III	\$56	\$31	\$87
east rooms-along ceiling	02-356360	60%	mjp on wrapped cardboard/paper	OMA	20 4 in.	O.D.	DW	25	III	\$562	\$312	\$874
southeast room-along west wall	02-356360	60%	mjp on wrapped cardboard/paper	OMA	3 4 in.	O.D.	DW	25	III	\$84	\$47	\$131
	02-356361	60%						25	III			
	02-356362	60%						25	III			

## AREA COMMENTS

AREA # 01 TOTAL \$3,489 \$2,102 \$5,591

The materials are in good to fair condition with minor contact and water damage. The materials are approximately 3' to 10' from the floor. At a minimum, it is recommended that the materials be repaired and monitored. If removal is planned, glove bag removal procedures are recommended. This appears to be a low traffic area.

*****	AREA NUMBER: 02	AREA DESCRIPTION: 2nd Floor	AREA AVERAGE % ASBESTOS: 43%	*****
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LOCATION OF THE MATERIAL	SAMPLE NUMBER	ASB	MATERIAL DESCRIPTION	O&M CODE	QUANTITY	UNITS OF MEASURE	PIPE ID	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
east room-northwest corner-near door	00-356366	50%	pipe covering	OMA	32 ft.	4 in. O.D.	HPS/R	39	III	\$285	\$179	\$464
east room-northwest corner-near door	00-356366	50%	pipe covering	OMA	20 ft.	6 in. O.D.	HPS/R	39	III	\$260	\$162	\$422
east room-northwest corner-near door	00-356366	50%	pipe covering	OMA	8 ft.	8 in. O.D.	HPS/R	39	III	\$113	\$81	\$194
E rm-near central columns-along ceiling	00-356366	50%	pipe covering	OMA	45 ft.	4 in. O.D.	HPS/R	39	III	\$401	\$251	\$652
E room-near west columns-along ceiling	00-356366	50%	pipe covering	OMA	51 ft.	4 in. O.D.	HPS/R	39	III	\$455	\$285	\$740
east room-northwest corner-near door	00-356370	30%	wrapped cardboard/paper pipe	OMA	11 ft.	6 in. O.D.	DW	39	III	\$143	\$89	\$232
E rm-near central columns-along ceiling	00-356370	30%	wrapped cardboard/paper pipe	OMA	33 ft.	4 in. O.D.	DW	39	III	\$294	\$184	\$478
E room-near west columns-along ceiling	00-356370	30%	wrapped cardboard/paper pipe	OMA	10 ft.	4 in. O.D.	DW	39	III	\$89	\$56	\$145
east room-northwest corner-near door	00-356370	30%	wrapped cardboard/paper pipe	OMA	12 ft.	4 in. O.D.	DW	39	III	\$107	\$67	\$174

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east room-near west wall-along ceiling	00-356370	30%	wrapped cardboard/paper pipe	OMA	104 ft. 4 in. O.D.	DW	39 III	\$928	\$580	\$1,508
east room-northwest corner-near door	04-356367	50%	mjp on pipe covering	OMA	5 4 in. O.D.	HPS/R	39 III	\$140	\$78	\$218
east room-northwest corner-near door	04-356367	50%	mjp on pipe covering	OMA	1 8 in. O.D.	HPS/R	39 III	\$48	\$28	\$76
E rm-near central columns-along ceiling	04-356367	50%	mjp on pipe covering	OMA	8 4 in. O.D.	HPS/R	39 III	\$225	\$125	\$350
E room-near west columns-along ceiling	04-356367	50%	mjp on pipe covering	OMA	7 4 in. O.D.	HPS/R	39 III	\$197	\$109	\$306
east room-northwest corner-near door	04-356367	50%	mjp on pipe covering	OMA	5 6 in. O.D.	HPS/R	39 III	\$193	\$114	\$307
	04-356368	60%					39 III			
	04-356369	60%					39 III			
east room-northwest corner-near door	05-356371	60%	mjp on wrapped cardboard/paper	OMA	2 6 in. O.D.	DW	39 III	\$77	\$45	\$122
east room-near west wall-along ceiling	05-356371	60%	mjp on wrapped cardboard/paper	OMA	7 4 in. O.D.	DW	39 III	\$197	\$109	\$306
E room-near west columns-along ceiling	05-356371	60%	mjp on wrapped cardboard/paper	OMA	2 4 in. O.D.	DW	39 III	\$56	\$31	\$87
east room-northwest corner-near door	05-356371	60%	mjp on wrapped cardboard/paper	OMA	1 4 in. O.D.	DW	39 III	\$28	\$16	\$44
E rm-near central columns-along ceiling	05-356371	60%	mjp on wrapped cardboard/paper	OMA	5 4 in. O.D.	DW	39 III	\$140	\$78	\$218
	05-356372	60%					39 III			
	05-356373	60%					39 III			

AREA COMMENTS

AREA # 02 TOTAL \$4,376 \$2,667 \$7,043

The materials are in good to fair condition with contact and water damage. The materials are approximately 4' to 10' from the floor. At a minimum, it is recommended that the materials be repaired and monitored. If removal is planned, glove bag removal procedures are recommended. This appears to be a low traffic area.

\*\*\*\*\* AREA NUMBER: 03

AREA DESCRIPTION: 2nd Floor

AREA AVERAGE % ASBESTOS: 40%

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LOCATION OF THE MATERIAL	SAMPLE NUMBER	ASB	MATERIAL DESCRIPTION	O&M CODE	QUANTITY	UNITS OF MEASURE	PIPE ID	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
instrument lab-along N wall-near ceiling	00-356366	50%	pipe covering	OMA	22 ft. 4 in.	O.D. HPS/R	25	III		\$196	\$123	\$319
instrument lab-restroom-at ceiling	00-356366	50%	pipe covering	OMA	18 ft. 8 in.	O.D. HPS/R	25	III		\$255	\$182	\$437
instrument lab-restroom-at ceiling	00-356366	50%	pipe covering	OMA	40 ft. 4 in.	O.D. HPS/R	25	III		\$357	\$223	\$580
instrument lab-hallway-at ceiling	00-356366	50%	pipe covering	OMA	4 ft. 4 in.	O.D. HPS/R	25	III		\$36	\$22	\$58
instrument lab-hallway-at ceiling	00-356370	30%	wrapped cardboard/paper pipe	OMA	18 ft. 4 in.	O.D. DW	25	III		\$161	\$100	\$261
instrument lab-SE storage-at ceiling	00-356370	30%	wrapped cardboard/paper pipe	OMA	4 ft. 4 in.	O.D. DW	25	III		\$36	\$22	\$58
instrument lab-restroom-at ceiling	00-356370	30%	wrapped cardboard/paper pipe	OMA	40 ft. 4 in.	O.D. DW	25	III		\$357	\$223	\$580
instrument lab-stairwell-at east wall	00-356370	30%	wrapped cardboard/paper pipe	OMA	14 ft. 4 in.	O.D. DW	25	III		\$125	\$78	\$203
northeast stairwell-near landing	03-356363	0%	pipe covering	OMA	10 ft. 10 in.	O.D. RS/R						
	03-356364	0%										
	03-356365	0%										
instrument lab-along N wall-near ceiling	04-356367	50%	mjp on pipe covering	OMA	1 4 in. O.D.	HPS/R	25	III		\$28	\$16	\$44
instrument lab-restroom-at ceiling	04-356367	50%	mjp on pipe covering	OMA	1 8 in. O.D.	HPS/R	25	III		\$48	\$28	\$76
instrument lab-restroom-at ceiling	04-356367	50%	mjp on pipe covering	OMA	5 4 in. O.D.	HPS/R	25	III		\$140	\$78	\$218
	04-356368	60%										
	04-356369	60%										
instrument lab-restroom-at ceiling	05-356371	60%	mjp on wrapped cardboard/paper	OMA	4 4 in. O.D.	DW	25	III		\$112	\$62	\$174
instrument lab-SE storage-at ceiling	05-356371	60%	mjp on wrapped cardboard/paper	OMA	1 4 in. O.D.	DW	25	III		\$28	\$16	\$44
instrument lab-stairwell-at east wall	05-356371	60%	mjp on wrapped cardboard/paper	OMA	3 4 in. O.D.	DW	25	III		\$84	\$47	\$131

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	05-356372	60%	25 III	
	05-356373	60%	25 III	

AREA COMMENTS

AREA # 03 TOTAL \$1,963 \$1,220 \$3,183

The materials are in good to fair condition with minor contact and water damage. The materials are approximately 3' to 12' from the floor. At a minimum, it is recommended that the materials be repaired and monitored. If removal is planned, glove bag removal procedures are recommended. This appears to be a moderate traffic area.

*****	AREA NUMBER: 04	AREA DESCRIPTION: 2nd Floor-Carbon Dioxide Receiving Room	AREA AVERAGE % ASBESTOS: 47%	*****
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LOCATION OF THE MATERIAL	SAMPLE NUMBER	ASB	MATERIAL DESCRIPTION	O&M CODE	QUANTITY	UNITS OF MEASURE	PIPE ID	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
above carbon dioxide tank-along ceiling	00-356366	50%	pipe covering	OMA	92 ft.	4 in. O.D.	HPS/R	25	III	\$821	\$513	\$1,334
above carbon dioxide tank-along ceiling	00-356366	50%	pipe covering	OMA	4 ft.	6 in. O.D.	HPS/R	25	III	\$52	\$32	\$84
above carbon dioxide tank-along ceiling	00-356366	50%	pipe covering	OMA	10 ft.	8 in. O.D.	HPS/R	25	III	\$141	\$101	\$242
above carbon dioxide tank-along ceiling	00-356370	30%	wrapped cardboard/paper pipe	OMA	10 ft.	6 in. O.D.	DW	25	III	\$130	\$81	\$211
above carbon dioxide tank-along ceiling	00-356370	30%	wrapped cardboard/paper pipe	OMA	32 ft.	4 in. O.D.	DW	25	III	\$285	\$179	\$464
above carbon dioxide tank-along ceiling	04-356367	50%	mjp on pipe covering	OMA	2	8 in. O.D.	HPS/R	25	III	\$96	\$57	\$153
above carbon dioxide tank-along ceiling	04-356367	50%	mjp on pipe covering	OMA	1	6 in. O.D.	HPS/R	25	III	\$39	\$23	\$62
above carbon dioxide tank-along ceiling	04-356367	50%	mjp on pipe covering	OMA	24	4 in. O.D.	HPS/R	25	III	\$674	\$375	\$1,049
	04-356368	60%						25	III			
	04-356369	60%						25	III			
above carbon dioxide tank-along ceiling	05-356371	60%	mjp on wrapped cardboard/paper	OMA	3	4 in. O.D.	DW	25	III	\$84	\$47	\$131
above carbon dioxide tank-along ceiling	05-356371	60%	mjp on wrapped cardboard/paper	OMA	1	6 in. O.D.	DW	25	III	\$39	\$23	\$62
	05-356372	60%						25	III			
	05-356373	60%						25	III			

AREA COMMENTS

AREA # 04 TOTAL \$2,361 \$1,431 \$3,792

The materials are in good condition with minor contact and water damage. The materials are approximately 9' to 11' from the floor. At a minimum, it is recommended that the materials be repaired and monitored. If removal is planned, glove bag removal procedures are recommended. This appears to be a low traffic area.

BUILDING # 14 TOTAL \$12,189 \$7,420 \$19,609